

STICKING INHIBITOR AND HEAT-SENSITIVE TRANSFER RECORDING FILM

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Abstract of JP10297123

PROBLEM TO BE SOLVED: To enable a heat-sensitive transfer recording film to have high lubricity and also to be free from the splash of a heat-sensitive ink or the generation of an interference with a transfer action by forming a sticking inhibiting layer composed of a polydimethyl siloxane block copolymer. **SOLUTION:** A polydimethyl siloxane block copolymer to be used for the sticking inhibiting layer of the heat-sensitive transfer recording film is composed of three parts such as $(a<1> * a<2>)^1$, $a<1> * (a<1> * a<2>)^m$ $a<2> * (a<2> * a<2>)^n$. l, m, n are an integer of 1-10: a<1> is the polydimethyl siloxane part of the structure shown by formula (n is an integer of 1-50); and a<2> is a vinyl polymer part. When forming the sticking inhibiting layer, a solution of the polydimethyl siloxane block copolymer solved in an organic solvent is applied to the surface of a base film and then is dried. According to an experiment, a sheet on which the sticking inhibiting layer is formed demonstrates the favorable effect of the inhibitor which eliminates the splash of an ink, a sticking phenomenon and print irregularities.

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